

Bureau of Waste Prevention - Air Quality

BWP AQ 09

Instructions and Supporting Materials

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Introduction

DEP *Permit Applications*, as well as *Instructions & Support Materials*, are available for download from the DEP Web site at mass.gov/dep in two file formats: Microsoft WordTM and Adobe Acrobat PDFTM. Either format allows documents to be printed.

Instructions & Support Materials files in Microsoft Word™ format contain a series of documents that provide guidance on how to prepare a permit application. Although we recommend that you print out the entire package, you may choose to print specific documents by selecting the appropriate page numbers for printing.

Permit Applications in Microsoft Word[™] format must be downloaded separately. Users with Microsoft Word[™] 97 or later may complete these forms electronically.

Permitting packages in Adobe Acrobat PDF™ format combine *Permit Applications* and *Instructions & Support Materials* in a single document. Adobe Acrobat PDF™ files may only be viewed and printed without alteration. *Permit Applications* in this format may not be completed electronically.



COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS DEPARTMENT OF ENVIRONMENTAL PROTECTION

ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

JANE SWIFT Governor

BOB DURAND Secretary

LAUREN A. LISS Commissioner

Dear Applicant:

The information contained in the accompanying documents will assist you in preparing and submitting your DEP permit application. We promise to complete our review of your application and act on your permit as quickly as possible. If we are unable to issue a final decision within the prescribed time limit for the category of any permit you are seeking, we will refund your application fee.

If you are seeking a permit with a review timeline of more than 30 days, a specific member of our staff will be assigned to serve as your Point of Contact (POC) to answer any questions you may have about the status of your application and/or our review. Shortly after receiving your application, we will send you a letter of acknowledgement that provides your POC's name and direct telephone number.

We strongly encourage you to advise us if you are applying for multiple permits related to the same project. The best way to do so is by listing all related permits and anticipated filing dates in the space provided on the Transmittal Form that must accompany each application and fee payment. By providing this information, you will enable your POC to better coordinate DEP review of your applications, track their status, and keep you informed.

Should you have questions or need help before you apply, please call our nearest regional service center (address and telephone numbers can be found elsewhere in this mailing) or DEP InfoLine (617-338-2255) from the Boston calling area and outside Massachusetts, or 1-800-462-0444 from area codes 413, 508, 781 and 978.

We are continuously looking for new ways to be more responsive and helpful to you. If you have any suggestions for improving the efficiency of the DEP permitting process, please write or call me at (617) 292-5500. In the meantime, thank you for joining us in working for a cleaner, healthier, more competitive Massachusetts.

Sincerely,

Lauren A. Liss

Commissioner

This information is available in alternate format by calling our ADA Coordinator at (617) 574-6872.

DEP on the World Wide Web: mass.gov/dep Printed on Recycled Paper



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1. What is the purpose of this approval?

A **Restricted Emission Statue** approval is a plan approval legally limiting the amount of potential emissions (see definition in Question 2 of these instructions) from your facility through a restriction on the raw materials used. Your facility's potential emissions determine the air quality regulations with which you must comply and the annual compliance fee you must pay.

Regulation 310 CMR 7.02(12) provides for Restricted Emission Status approvals. The legal authority for this regulation is MGL Chapter 111, sections 142B and 142D.

For specific information on who may or must apply for a Restricted Emission Status approval refer to 310 CMR 7.02(12). The application material submitted to DEP and the plan approval letter become the approval.

2. Who must apply?

You must file a Restricted Emission Status Plan if you wish to:

- a. change a facility's classification pursuant to 310 CMR 4.00 for compliance fee purposes;
- b. limit potential emissions to remain below the applicable thresholds requiring filing of an Emission Control Plan (pursuant to 310 CMR 7.18 VOC RACT or 310 CMR 7.19 NO_x RACT);
- c. limit potential emissions to remain below "major source" thresholds requiring filing of an Operating Permit (pursuant to 310 CMR 7.00 Appendix C);
- d. limit potential emissions for purposes of applicability of any other air quality regulation.

Potential to Emit or **Federal Potential Emissions** means the maximum capacity of a stationary source to emit a regulated pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit a regulated pollutant, including air pollution control equipment and restriction on hours of operation or in the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limitation or the effect it would have on emissions is **federally enforceable**.

To be federally enforceable:

- a limitation on any facility's capacity to emit a pollutant shall include testing, monitoring, and record keeping procedures sufficient to demonstrate compliance with the limitations. Examples of permit or SIP limitations generally considered federally enforceable are limitations on the allowable capacity of the equipment, requirements for the installation, operation and maintenance of pollution control equipment, limits on hours of operation, and restrictions on amounts of materials combusted, stored, or produced.
- restrictions on operation, production, or emissions must be stated in terms of the shortest averaging time
 that can be used as a practical matter, e.g., pounds per hour, or gallons per hour, and they must be tied
 to other enforceable operating restrictions at the source. General limitations on potential to emit, such as
 yearly limits (e.g., in tons per year), by themselves, are not considered federally enforceable. The use of
 hourly, daily, weekly, or monthly rolling limits are generally acceptable.

Any federally enforceable limitations or conditions must be enforceable as a practical matter, ensure continuous compliance with the restrictions, and include adequate testing, monitoring, and record keeping procedures sufficient to demonstrate compliance with the limitations or conditions of an applicable federally enforceable document described above. Fugitive emissions, to the extent quantifiable, are included in determining the potential to emit of a stationary source. Secondary emissions do not count in determining the potential to emit of a stationary source.



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Refer to the specific regulations for details on requirements and qualifications.

3. What other requirements should be considered when applying for this approval?

This form is not to be used in applying for approval to construct or modify any source, nor may this form be used to contravene the requirements of any written approval issued by the Department.

Please note that even if you restrict potential VOC emissions to below "major source" status (i.e. 50 tons per year), if your VOC emissions include 10 or more tons per year of a single Hazardous Air Pollutant (HAP) or 25 or more tons per year of any combination of HAPs, your facility would still be "major" and thus would still be subject to Operating Permit as contained in 310 CMR 7.00 Appendix C. See list of HAPs attached to application form.

4. What is the application fee for this approval?

The application fee is \$1,550

5. What is the Primary Approval Location? What is the Reserve Copy Location?

Primary Approval Location:

Dep't. of Environmental Protection

_____* Regional Office

Air Quality Control

Reserve Copy Location:

Dep't. of Environmental Protection

____* Regional Office

Air Quality Control

As indicated above, all completed application packages should be submitted in duplicate (one primary copy, one reserve copy) to the appropriate regional office for review and approval.

Upon approval of the application, DEP stamps the photocopy and returns it to you for your records. In this manner, DEP and the applicant have identical copies of the approved submittal.

You must use Form BWP AQ 09 - Restricted Emission Status when filing.

6. What are the timelines for these plan approvals?

As of February 25, 1994, the timelines are:

	AC	T1	T2*	PC
BWP AQ 09	30	90	60	10

^{*}A second technical review will only be conducted if necessary.

7. What is the annual compliance fee for this approval?

The amount of the annual compliance assurance fee is depends on the facility's total potential emissions. Please consult Table 4.03, (Air Quality section) of 310 CMR 4.03 for more information. If you fail to pay the annual compliance assurance fee, your approval could be suspended or revoked.

^{*}See "Addresses and Phone Numbers" page included in this package.



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8. How long is this approval in effect?

The approval is in effect until the facility approved by this action is substantially reconstructed or altered, or until such time as the restrictions approved herein are modified. Both these cases require a new approval before such changes occur.

9. How can I avoid the most common mistakes made in applying for this approval?

- a. Answer all questions on the application form and indicate "N/A" (not applicable) where appropriate.
- b. Submit all supplementary information requested in the application.
- c. Submit two copies of the application to the regional office for review.
- d. Submit fee and one copy of the DEP Transmittal Form to: Department of Environmental Protection, P.O. Box 4062, Boston, MA 02211.

10. What are the regulations that apply to this approval? Where can I get copies?

These regulations include, but are not limited to:

- a. Air Pollution Control Regulations, 310 CMR 6.00 8.00.
- b. Timely Action and Fee Provisions, 310 CMR 4.00.
- c. Administrative Penalty Regulations, 310 CMR 5.00.

They may be purchased at:

State House Bookstore Room 116 Boston, MA 02133 617-727-2834 State House West Bookstore 21 Elm Street Springfield, MA 01103 413-784-1376



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Operating Restrictions

Section G: Provide the restriction that will be used to define emissions. The form presumes a fuel or raw material restriction in Item #1, by individual unit, but you are not confined to this option. Alternatives can be described in Item #2. The following briefly describes the intent and requirements of a restriction.

Many regulations in Air Quality are based not on actual emissions, but rather on potential emissions. Simply stated, potential emissions are the amount of emissions that will never be exceeded (usually defined on a yearly basis). While the actual emissions may vary year to year depending upon many factors, these emissions will never exceed the potential.

Without restrictions imposed, potential emissions are the emissions that would result if the equipment operated at 100% of its rated capacity, 100% of the time (24 hours per day, 7 days per week, 52 weeks per year).

With restrictions imposed, potential emissions can be defined as something less than 100% rated capacity, 100% of the time.

Examples of restrictions are:

Limit on the amount of fuel burned.
Limit on the amount of raw material processed.
Limit on the production rate (derating the equipment).
Limit on the hours of operation.
Equipment modifications to limit throughput.

The major considerations in choosing a restriction are:

Facility Needs. Do not propose a restriction which would be unreasonable for the facility. These restrictions are enforceable by law and the facility can be subject to enforcement actions including substantial penalties for exceeding a restriction.

Time Frames. Restrictions must be expressed as a short term rate (for example, per hour, day, or month) and as a yearly (12 month rolling calendar period) rate.

Enforceability. Any restriction proposed must be verifiable as a practical matter. A proposal to restrict emissions to 1 ton per month of NO_x , for example, is unverifiable. However, a proposal to restrict usage of #2 fuel oil to 50,000 gallons per month is readily verifiable through records of fuel purchases at the facility. (See Section J).

For further information, refer to the definition of potential emissions and EPA's June 13, 1989 guidance entitled "Guidance on Limiting Potential to Emit in New Source Permitting" (copy attached).

Emissions

Section H: Provide the equipment emission rate and calculate total emissions based on this rate, and the restrictions specified in Section D. Attach any necessary calculations.

Emission Rate is the rate at which the equipment emits a pollutant. For combustion equipment, this rate is usually specified in terms of lbs per million BTU, lbs per gallon of fuel, lbs per pound of fuel, lbs per horsepower, etc. For other equipment the rate is usually in lbs per hour but can be based on other units. Emission rates are

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very dependent upon individual equipment, air pollution control equipment and fuels used. Each unit is a unique case, but emission rates can be determined from:

Approvals or emission standards. If the unit has been previously approved, in writing, by the DEP, or is subject to a standard, and an emission rate was established, this is the preferred source for emission rates.

Testing. Testing of the unit could yield an accurate emission rate.

Manufacturers information. Often manufacturers can provide data on emission rates for a particular unit.

Standard factors. Standard emission factors are available for a limited number of sources. These are listed below, but should only be used as a last resort. Refer to EPA document AP-42 "Compilation of Air Pollution Emission Factors" and other documents for details.

Engineering estimates. Estimates can sometimes be derived from other information with certain assumptions. For example, SO_x emission rates can be calculated assuming a maximum sulfur content in fuel and total conversion to SO_x . VOC emissions can be calculated assuming all VOC in a coating is emitted.

Standard Factors (For use only when no other information is available):

Boilers and Ovens:

Sulfur Dioxide (SO_2) ;

• 2 pounds of SO₂ emitted for every pound of sulfur contained in the fuel (Use the maximum legal sulfur content possible, lbs per BTU).

Nitrogen Oxides (NO_x);

- 67 lbs of NO_x for every 1,000 gallons of oil burned in boilers > 100 million Btu/hr.
- 55 lbs of NO_x for every 1,000 gallons of oil burned in boilers 0.5 to 100 million Btu/hr using residual fuels (#6, #5, #4).
- 20 lbs of NO_x for every 1,000 gallons of oil burned in boilers 0.5 to 100 million Btu/hr using distillate fuels (#2, #1).
- 18 lbs of NO_x for every 1,000 gallons of oil burned in boilers less than 0.5 million Btu/hr using distillate fuels (#2, #1).
- 550 lbs of NO_x for every 1,000,000 cubic feet of gas burned in boilers >100 million Btu/hr.
- 140 lbs of NO_x for every 1,000,000 cubic feet of gas burned in boilers 10 to 100 million Btu/hr.
- 100 lbs of NO_x for every 1,000,000 cubic feet of gas burned in boilers less than 10 million Btu/hr.

Diesel Engines, Turbines and Other Combustion Equipment;

SO₂: Calculated as indicated for boilers.

 $\mbox{NO}_{\mbox{\tiny X}}$:Calculated from equipment manufacturers specifications (or as contained in a written DEP approval).

Total Emissions are the emission factors multiplied by the short term and twelve month rolling calendar period restrictions, accounting for any necessary conversions. For example, a boiler that emits 20 lbs of NO_x per 1,000 gallons of fuel and has a fuel restriction of 2,000 gallons per month would have potential emissions of 40 lbs per month of NO_x . A facility that emits 7.5 lbs of VOC per gallon of coating and has a restriction of 100 gallons of that coating per month would have potential emissions of 750 lbs per month of VOC.



BWP AQ 09 Potential Emission Restriction Permit **Application Completeness Checklist**

The DEP Transmittal Form is completed.
All questions have been answered (N/A has been inserted where appropriate).
A signature of the legally responsible official has been included even if an agent has been hired to complete the application. See definitions in 310 CMR 7.00.
Two complete copies of the application are being transmitted for review to Air Quality Control at the appropriate DEP Regional Office.
submit the application package:
Checklist items have been completed.
Send two copies of the application along with one copy of the DEP Transmittal Form to:
Department of Environmental Protection * Regional Office Air Quality Control *See "Addresses and Phone Numbers" page included in this package. Send fee of \$1,550 in the form of check or money order made payable to Commonwealth of Massachusetts, along with one copy of the DEP Transmittal Form to: Department of Environmental Protection P.O. Box 4062

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Boston, MA 02211



Addresses and Phone Numbers

DEP Boston One Winter Street Boston, MA 02108 Telephone: (617) 292-5500 Fax: (617) 556-1049 TDD: (617) 574-6868

William X. Wall Experiment Station 37 Shattuck Street Lawrence, MA 01843 Fax: (978) 688-0352 Division of Environmental Analysis Telephone: (978) 682-5237 Air Quality Surveillance

Colrain

Conway

Dalton

Ervina Florida

Goshen

Granby Granville

Gill

Deerfield

Telephone: (978) 975-1138

Office of Watershed Management 627 Main Street Worcester, MA 01608 Telephone: (508) 792-7470 Fax: (508) 839-3469

Millbury Training Center Route 20 Millbury, MA 01527 Telephone: (508) 368-5600 Fax: (508) 755-9253 Residuals Sludge Management Telephone: (508) 368-5606 WWT Operator Certification Telephone: (508) 368-5698

DEP Western Region 436 Dwight Street Suite 402 Springfield, MA 01103 Phone: (413) 784-1100 Fax: (413) 784-1149



Adams Agawam Alford Amherst Ashfield Becket Belchertown Bernardston Blandford Brimfield Buckland Charlemont Cheshire Chester Chesterfield Chicopee Clarksburg

Hampden Hancock Cumminaton Hatfield Hawley Heath Easthampton Hinsdale East Longmeadow Holland Egremont Holvoke Huntington Lanesborough Lee Lenox Leverett Levden Great Barrington Longmeadow Greenfield Ludlow Middlefield

Monroe Montague Monterey Montgomery Monson Mount Washington New Ashford New Marlborough New Salem North Adams Northampton Northfield Orange Otis Palmer Pelham

Pittsfield Tyringham Plainfield Wales Richmond Ware Rowe Warwick Washington Wendell Russell Sandisfield Westfield Savoy Sheffield Westhampton West Springfield Shelburne Shutesbury West Stockbridge Southampton Whately South Hadley Wilbraham Southwick Williamsburg Sprinafield Williamstown Stockbridge Windsor Worthington Sunderland

DEP Central Region 627 Main Street Worcester, MA 01608 Phone: (508) 792-7650 Fax: (508) 792-7621 TDD: (508) 767-2788



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Charlton Hopkinton Clinton Douglas Hubbardston Hudson Dudley Holliston Dunstable Lancaster East Brookfield Leicester Fitchburg Leominster Littleton Gardner Grafton Lunenburg Marlborough Groton Harvard Maynard Hardwick Medway Holden Mendon Hopedale Milford

Millbury Millville New Braintree Northborough Northbridge North Brookfield Oakham Oxford Paxton Pepperell Petersham Phillipston Princeton Royalston

Rutland Shirley Shrewsbury Southborough Southbridge Spencer Sterling Stow Sturbridge Sutton Templeton Townsend Tvnasborouah

Uxbridge Warren Webster Westborough West Boylston West Brookfield Westford Westminster Winchendon Worcester

DEP Southeast Region 20 Riverside Drive Lakeville, MA 02347 Phone: (508) 946-2700 Fax: (508) 947-6557 TDD: (508) 946-2795



Abington Acushnet Attleboro Avon Barnstable Berkley Bourne Brewster Bridgewater Brockton Chatham Chilmark

Dartmouth Dennis Dighton Duxbury Eastham East Bridgewater Easton Edgartown Fairhaven Fall River Falmouth Foxborough Franklin

Freetown Gay Head Gosnold Halifax Hanover Hanson Harwich Kingston Lakeville Mansfield Marion Marshfield Mashpee

Mattapoisett Middleborough Nantucket New Bedford North Attleborough Norton Norwell Oak Bluffs Orleans Pembroke Plainville Plymouth Plympton

Provincetown Ravnham Rehoboth Rochester Rockland Sandwich Scituate Seekonk Sharon Somerset Stoughton Swansea Taunton

Tisbury Truro Wareham Wellfleet West Bridgewater Westport West Tisbury Whitman Wrentham Yarmouth

DEP Northeast Region 1 Winter Street Boston, MA 02108 Phone: 617-654-6500



Amesbury And over Arlington Ashland Bedford Belmont Beverly Billerica **Boston Boxford** Braintree Brookline Burlington Cambridge Canton

Carlisle

Chelsea Cohasset Concord Danvers Dedham Dover Dracut Essex Everett Framingham Georgetown Gloucester Groveland Hamilton Haverhill

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Hingham Holbrook Ipswich Lawrence Lexington Lincoln Lowell Lynn Lynnfield Malden Manchester-By-The-Sea Marblehead Medfield

Medford

Melrose

Merrimac Methuen Middleton Millis Milton Nahant Natick Needham Newbury Newburyport Newton Norfolk North Andover North Reading Norwood Peabody

Quincy Randolph Reading Revere Rockport Rowley Salem Salisbury Saugus Sherborn Somerville Stoneham Sudbury Swampscott Tewksbury Topsfield

Wakefield Walpole Waltham Watertown Wavland Wellesley Wenham West Newbury Weston Westwood Weymouth Wilmington Winchester Winthrop Woburn



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Restricted Emission Status Application

Facility ID# (if known)

Transmittal Number

Important:
When filling ou
forms on the
computer, use
only the tab ke
to move your

ut cursor - do not use the return





. Fa	acility Information				
Fac	ility Name				
Stre	eet Address				
City	r/Town	State	Zip Code		
Cor	ntact				
lan	Application Preparer				
Per	son who compiled the plan's application materials				
Rep	presenting				
·	· ·				
Add	dress				
City	//Town	State	Zip Code		
_		-			
Tel	ephone Number (including extension)				
Dat	e Completed	-			
. A	pplicability				
	rm is used to apply for a Restricted Emissio	ns Status (RES) in accordance wi	ith 310 CMR 7.02(12).		
ease	check all that apply:				
] 1.	restrict potential emissions to allow redesign 4.03); or	gnation, for purposes of compliand	ce fees (310 CMR		
2.	restrict potential emissions below the Reasonal capility througholds for Voletile Organic				
	applicability thresholds for Volatile Organic	c Compounds (VOCs) (3 to CMR	7.10), UI		
3.	 restrict potential emissions below the Reasonably Available Control Technology (RACT) applicability thresholds for nitrogen oxides (NO_x)(310 CMR 7.19); or 				
4.					
	applicability thresholds for halogenated or	ganic compounds (HOCs) (310 Cl	IVIT (.10), Uľ		
5.					
	thresholds; or				

This form is not to be used in applying for approval to construct or modify any source, nor may this form be used to contravene the requirements of any written approval issued by the Department.

6. restrict potential emissions for any other applicable requirement.



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the instructions of this form.

Restricted Emission Status Application

Transmittal Number
Facility ID# (if known)

Pollutant(s) Restricted
Check all that are applicable:
☐ Sulfur Dioxide
☐ Oxides of Nitrogen (NO _x)
☐ Volatile Organic Compounds (VOC)
☐ Halogenated Organic Compounds (HOC)
☐ Hazardous Air Pollutants (HAP)
Other (Describe):
Please note that even if you restrict potential VOC emissions to below "major source" status (i.e. 50 tons per year), if your VOC emissions include 10 or more tons of a single HAP or 25 or more tons of any combination of HAPs, your facility would still be "major" thus would still be subject to operating permits at 310 CMR 7.00 Appendix C. See attached list of HAPs begining on page 9.
Supplemental Information
Include all supplemental information necessary to document/substantiate this restriction including but not limited to:
raw material formulation specifications
☐ equipment design literature
☐ examples of recordkeeping
☐ calculations
C. Facility Emission History
This form is for the restriction of POTENTIAL EMISSIONS as described in Sections G and H as well as in

For each pollutant which is to be restricted by this approval complete the following, where:

Current Potential Emissions means the potential for the entire facility as it currently exists, accounting for any and all previous approvals and/or restrictions.

Actual Baseline Emissions means the highest actual emissions for this facility since 1990. Note on a separate piece of paper any changes to the facility that are accounted for in that year's emissions (for example, equipment added or removed).

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Transmittal Number	_
Facility ID# (if known)	

C. Facility Emission History (cont.)

Proposed Potential Emissions means the potential that will be established by this project. You will have to complete the rest of this form before completing this section. Be sure this value is the same as indicated in Section H.

Warning: There may be limits on what you may propose as Potential Emissions based on Current Potential and Actual Baseline Emissions. Specifically, this application cannot be used to avoid or RACT requirements if actual emissions (of VOC, NO X) have exceeded 50 TPY since calendar year 1990.

	Air Contaminant*	Current Potential Emissions (TPY)**	Actual Baseline Emissions (TPY)	Proposed Potential Emissions (YPY)		
	Particulate:					
	SO_2					
* Complete	NO_x					
Only for air contaminants	VOC					
that will be affected by this	HOC					
approval.	HAP (list):					
** TPY = tons per year	1					
	2					
	Other (specify):					
	D. Historical Usages					
		fuel or raw materials used in year Emissions as reported in Secti				
	pounds, etc.)	Unit No.		nit No. Total		
	1. Primary fuel us	ed				
	2. Auxiliary fuel u	sed ———				
	3. Raw material					
	l					
	111					



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b. Date of Modification

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Facility ID# (if known)

E. Equipment Description - Fuel Utilization Equipment Complete this Unit No. Unit No. Unit No. section, Fuel Utilization Equipment and/or Section F, Type of Equipment (boiler, oven, Process space heater, diesel, etc.) Equipment, depending upon 2. Manufacturer the source of the emissions for which you are 3. Model Number seeking a restriction. Maximum Input Rating (Btu/hr) (use additional pages, if Burner Manufacturer necessary) Model Number 7. Number of Burners in Each Combustion Unit 8. Primary Fuel a. Type and Grade b. Sulfur Content (% by weight) c. Maximum Fuel Firing Rate (All burners firing) (indicate gal/hr, lbs/hr, cubic feet per hour, etc.) 9. Standby or Auxiliary Fuel a. Type and Grade b. Sulfur Content (% by weight) Maximum Fuel Firing Rate (All burners firing) (indicate gal/hr, lbs/hr, cubic feet per hour, etc.) 10. Date of Installation 11. Modification Since Installation a. Type of Modification



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Equipment	Description -	_ Euol I Itili:	zation Equi	inmont (cont)

Ε.	E	quipment Description – Fu	uel Utilizatio	n Equipment (cont.)
			Unit No.	Unit No.	Unit No.
12.		P Air Quality Approvals (if policable)			
	a.	Approval Number			
	b.	Date of Approval			
	C.	Modifications to Approval (describe):			
		Date			
		Approval Number			
F.	Ec	quipment Description – Pr	ocess Equip	oment	
			Unit No.	Unit No.	Unit No.
1.		oe of Equipment (Coater, Paint ray Booth, Degreaser, etc.)			
2.	Ма	nufacturer			
3.	Мо	del Number			
4.		eximum Process Rate* (include nount with units, i.e. gal/hr, lbs/hr, i.)			
	a.	raw material(s) (list)			
		i			
		ii			
	b.	finished material(s) (list)			
		i			
		ii.			

* Refers to the maximum rate at which the piece of equipment can utilize raw (or produce finished) materials. This is not the equipment normal operation rate but rather its absolute design capacity.



approval.

Massachusetts Department of Environmental ProtectionBureau of Waste Prevention • Air Quality

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Facility ID# (if known)

	F.	Ed	uipment Desci	ription – Pr	ocess Equip	ment (co	nt.)	
					Unit No.	Unit No.	ι	Jnit No.
	5.	Da	te of Installation					
	6.	Мо	difications Since Insta	llation				
		a.	Type of Modification					
		b.	Date of Modification					
	12		P Air Quality Approval	s (if				
		a.	Approval Number					
		b.	Date of Approval					
		C.	Modifications to Appr	oval (describe):				
			Date					
			Approval Number					
Note: See instructions to	G	. O	perating Restri	ction				
complete section G.	I.	Fu	el Utilization Equipm	ent Restriction				
Complete Section I – Fuel	Fuel Restriction – Enter amount and units (gallons, cubic feet, etc.):							
Utilization Equipment Restriction		a.	Short term rate (chec	k one):				
and/or Section II - Process Equipment Restriction, depending upon the source of the emissions for which you are seeking a restriction.			per month per day per hour other (may not be any long	er than "per mon Unit No.	th") Unit No.	Unit	No	Total
This restriction			primary fuel					
can never be exceeded without prior written Department			auxiliary fuel		_			



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Transmittal Number
Facility ID# (if known)

b.	Twelve month rolling	Unit No.	Unit No.	Unit No.	Total						
υ.	calendar period rate:										
	primary fuel	-									
	auxiliary fuel										
	Iternative or additional restrictions. Describe any other physical or operational restriction on the										
Ca	apacity of the equipment to emit a pollutant (including air pollution control equipment):										
Pr	ocess Equipment Rest	riction									
Ra	Raw Material Restriction – Enter amount and units (gallons, pounds, etc.)										
			(6 / /	,							
-	a. Short term rate (check one):										
۵.											
u .	per month per day	,									
٠.	per day per hour	,									
u .	per day	<u> </u>	٦")								
u .	per day per hour other	r than "per month	•								
u .	per day per hour other (may not be any longe	r than "per montl Unit No.	Unit No.	Unit No.	Total						
u .	per day per hour other (may not be any longe	r than "per montl Unit No.	Unit No.	Unit No.	Total						
	per day per hour other (may not be any longe	r than "per montl Unit No.	Unit No.	Unit No.	Total						
	per day per hour other (may not be any longe) i.	r than "per montl Unit No.	Unit No.	Unit No.	Total — —						
b.	per day per hour other (may not be any longe) i. Twelve month rolling calendar period rate:	r than "per montl Unit No.	Unit No.	Unit No.	Total						
	per day per hour other (may not be any longe) i. Twelve month rolling	r than "per montl Unit No.	Unit No.	Unit No.	Total						
	per day per hour other (may not be any longe) i. Twelve month rolling calendar period rate:	r than "per month Unit No.	Unit No.	Unit No.	Total						

never be exceeded without prior written Departmental approval. Carefully read the instructions and information.

This emission restriction can



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H. Emissions

Note: see instructions to complete section H. 1. Emissions rate - For each pollutant you wish to restrict, provide emission rate for each unit (lbs/million BTU, lbs/hr, lbs/hp, lbs./unit product, lbs/gallon coating, etc.) and indicate basis of emission rate (Department approval letter, manufacturer information, emission factor, etc):

			Unit No.	Unit No.	Unit No.
	a.	SO ₂			
		rate			
		basis			
	b.	NO _x			
		rate			
		basis			
Note for c. and	C.	VOC			
d. – Do not nclude HAP's if isting separately n item e.		rate			
		basis			
	d.	HOC			
		rate			
		basis			
Note for e. –	e.	HAP (list each HAP separately)			
Complete only if you wish to limit a particular HAP (see list attached). If HAP		i. Name			
hat you are restricting is also		rate			
a VOC or HOC, do not include in tem c. or d.		basis			
0. 0. 0.		ii. Name			
		rate			
		basis			

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	Н	. Emissions (cont.)					
		iii. Name rate	Unit No.	Unit No.	Unit No.		
Note for f. – Other" refers to	f.	Other					
ny other ollutant for hich the facility seeking a estriction, e.g.		rate basis		_			
articulate or	2.						
		☐ per month ☐ per day ☐ per hour ☐ other ☐ may not be any longer the	nan "per month")				
			Unit No.	Unit No.	Unit No.		
		SO_2					
		NO_x					
		VOC					
		HOC					
		НАР					
		l					
		II			<u> </u>		
Other" refers to		Other					

any other pollutant for which the facility is seeking a restriction, e.g. particulate or CO.



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Emissions (cont.)			
b. Twelve month rolling cal	endar period rate:		
	Unit No.	Unit No.	Unit No.
SO ₂			
NO_x			
VOC			
HOC			
HAP			
l			
II			
III			
Other			
Provide details of emission c	alculations (attach additiona	I pages if necessary):	
Monitoring/Record	keeping rational restriction proposed		
Monitors – Monitoring equipr		s and recorders, hour r	neters and recorder
Monitors – Monitoring equipr CEMs, temperature recorder		s and recorders, hour r	neters and recorder



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5. Monitoring/Necorakeeping (cont.	q (cont.)	ecordkeeping	Monitoring/R	J.
------------------------------------	-----------	--------------	--------------	----

2.	Recordkeeping - Describe records that will be kept and attach examples. Recordkeeping may include daily logs, meter charts, time logs, fuel purchase records, raw material records, disposal records, excess emission records, CEM records, test reports, etc.:		
K.	Certification		

Date

This form must be signed by the owner or by a responsible company official working at the location of the source. Even if an agent has been designated to fill out this form, the owner or responsible officer must sign it.

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

Signed under the pains and penalties of perjury:

Print Name

Authorized Signature

Position/Title

Representing

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L. Hazardous Air Pollutants

Hazardous Air Pollutants		Hazardous Air Pollutants	
	"		
Name	CAS#	Name	CAS#
☐ Acetaldehyde	75-07-0	☐ Diazomethane	334-88-3
☐ Acetamide	60-35-5	☐ Dibenzofuran	132-64-9
☐ Acetonitrile	75-05-8	☐ 1,2-Dibromo-3-chloropropane	96-12-8
☐ Acetophenone	98-86-2	☐ Dibutylphthalate	84-74-2
☐ 2-Acetylaminofluorene	53-96-3	☐ 1,4-Dichlorobenzene	106-46-7
☐ Acrolein	107-02-8	3,3-Dichlorobenzidene	91-94-1
☐ Acrylamide	79-06-1	☐ Dichloroethylether (Bis(2-chloroethyl)ether)	111-44-4
☐ Acrylic acid	79-10-7	1,3-Dichloropropene (1,3-Dichloropropylene)	542-75-6
☐ Acrylonitrile	107-13-1	Dichlorvos	62-73-7
☐ Allyl chloride	107-05-1	☐ Diethanolamine	111-42-2
4-Aminobiphenyl	92-67-1	☐ N,N-Diethyl aniline (N,N-Dimethylaniline)	121-69-7
☐ Aniline	62-53-3	☐ Diethyl sulfate	64-67-5
□ o-Anisidine	90-04-0	3,3-Dimethoxybenzidine	119-90-4
☐ Asbestos	1332-21-4	☐ Dimethyl aminoazobenzene	60-11-7
☐ Benzene	71-43-2	3,3-Dimethyl benzidine	119-93-7
☐ Benzidine	92-87-5	☐ Dimethyl carbamyl chloride	79-44-7
☐ Benzotrichloride	98-07-7	☐ Dimethyl formamide	68-12-2
☐ Benzyl chloride	100-44-7	1,1-Dimethyl hydrazine	57-14-7
☐ Biphenyl	92-52-4	☐ Dimethyl phthalate	131-11-3
☐ Bis(2-ethylhexyl)phthalate	117-81-7	☐ Dimethyl sulfate	77-78-1
☐ Bis(chloromethyl)ether	542-88-1	4,6-Dinitro-o-cresol and salts	534-52-1
☐ Bromoform	75-25-2	2,4-Dinitrophenol	51-28-5
1,3-Butadiene	106-99-0	2,4-Dinitrotoluene	121-14-2
☐ Calcium cyanamide	156-62-7	1,4-Dioxane (1,4-Diethyleneoxide)	123-91-1
☐ Captan	133-06-2	1,2-Diphenylhydrazine	122-66-7
☐ Carbaryl	63-25-2	☐ Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106-89-8
☐ Carbon disulfide	75-15-0	1,2-Epoxybutane (1,2-Butylene oxide)	106-88-7
☐ Carbon tetrachloride	56-23-5	☐ Ethyl acrylate	140-88-5
☐ Carbonyl sulfide	463-58-1	☐ Ethyl benzene	100-41-4
☐ Catechol	120-80-9	☐ Ethyl carbamate (Urethane)	51-79-6
☐ Chloramben	133-90-4	Ethyl chloride (Chloroethane)	75-00-3
☐ Chlordane	57-74-9	☐ Ethylene dibromide (1,2-Dibromoethane)	106-93-4
☐ Chlorine	7782-50-5	☐ Ethylene dichloride (1,2-Dichloroethane)	107-06-2
☐ Chloroacetic acid	79-11-8	☐ Ethylene glycol	107-20-2
2-Chloroacetophenone	532-27-4	Ethylene imine (Aziridine)	151-56-4
☐ Chlorobenzene	108-90-7	Ethylene oxide	75-21-8
☐ Chlorobenzilate	510-15-6	☐ Ethylene thiourea	96-45-7
☐ Chloroform	67-66-3	☐ Ethylidene dichloride (1,1-Dichloroethane)	75-34-3
☐ Chloromethyl methyl ether	107-30-2	☐ Formaldehyde	50-00-0
☐ Chloroprene ☐ Cresols (mixed isomers)	126-99-8 1319-77-3	☐ Heptachlor ☐ Hexachlorobenzene	76-44-8 118-74-1
<u> </u>	108-39-4	☐ Hexachloro-butadiene	
☐ m-Cresol☐ o-Cresol			87-68-3
☐ p-Cresol	95-48-7 106 44 5	☐ Hexachlorocyclopentadiene	77-47-4 67 72 1
☐ Cumene	106-44-5	☐ Hexachloroethane	67-72-1
	98-82-8	Hexamethylphoophoromide	822-06-0
2,4-D, salts and esters	94-75-7	☐ Hexamethylphosphoramide	680-31-9
☐ DDE	3547-04-4	Hexane	110-54-3

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L. Hazardous Air Pollutants (cont.)

Hazardous Air Pollutants		Hazardous Air Pollutants			
Name	CAS#	Name	CAS#		
Hydrazine Hydrochloric acid Hydrogen fluoride Hydrogen sulfide Hydroquinone Isophorone Lindane Maleic anhydride Methanol Methoxychlor Methyl bromide (Bromomethane) Methyl chloride (Chloromethane) Methyl chloroform (1,1,1-Trichloroethane) Methyl ethyl ketone Methyl iodide (Iodomethane) Methyl isobutyl ketone (Hexone) Methyl isocyanate Methyl methacrylate Methyl tert-butyl ether 4,4-Methylenebis(2-chloroaniline) Methylene diphenyl diisocyanate(MDI) 4,4-Methylenedianiline Naphthalene Nitrobenzene 4-Nitrobiphenyl	302-01-2 7647-01-0 7664-39-3 7783-06-4 123-31-9 78-59-1 58-89-9 108-31-6 67-56-1 72-43-5 74-83-9 74-87-3 71-55-6 78-93-3 60-34-4 74-88-4 108-10-1 624-83-9 80-62-6 1634-04-4 101-14-4 75-09-2 101-68-8 101-77-9 91-20-3 98-95-3 92-93-3	beta-Propiolactone Propionaldehyde Propoxur (Baygon) Propylene dichloride (1,2 Dichloropropane) Propylene oxide 1,2-Propylenimine (2-Methyl aziridine) Quinoline Quinone Styrene Styrene oxide 2,3,7,8-Tetrachlorodibenzo-p-dioxin 1,1,2,2-Tetrachloroethane Tetrachloroethylene (Perchloroethylene) Titanium tetrachloride Toluene 2,4-Toluene diamine Toluene-2,4-diisocyanate o-Toluidene Toxaphene 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane Trichloroethylene 2,4,5-Trichlorophenol Triethylamine Trifluralin 2,2,4-Trimethylpentane Vinyl acetate Vinyl bromide Vinyl chloride	57-57-8 123-38-6 114-26-1 78-87-5 75-56-9 75-55-8 91-22-5 106-51-4 100-42-5 96-09-3 1746-01-6 79-34-5 127-18-4 7550-45-0 108-88-3 95-80-7 584-84-9 95-53-4 8001-35-2 120-82-1 79-00-5 79-01-6 95-95-4 121-44-8 1582-09-8 540-84-1 108-05-4 593-60-2 75-01-4		
4-Nitrophenol 2-Nitropropane N-Nitrosodimethylamine N-Nitrosomorpholine N-Nitroso-N-methylurea Parathion Pentachloronitrobenzene (Quintozene) Pentachlorophenol Phenol	100-02-7 79-46-9 62-75-9 59-89-2 684-93-5 56-38-2 82-68-8 87-86-5 108-95-2	 Vinylidene chloride (1,1-Dichloroethylene) Xylene (mixed isomers) m-Xylene o-Xylene p-Xylene Arsenic compounds: 	75-35-4 1330-20-7 108-38-3 95-47-6 106-42-3		
p-Phenylenediamine Phospene Phosphine Phosphorous Phthalic anhydride PCBs 1,3- Propane sultone	106-50-3 75-44-5 7803-51-2 7723-14-0 85-44-9 1336-36-3 1120-71-4	Arsenic Arsine Beryllium Cadmium Chromium Cobalt	7440-38-2 7784-34-1 7440-41-7 7440-43-9 7440-47-3 7440-48-4		

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L. Hazardous Air Pollutants (cont.)

Hazardous Air Pollutants					
Name CAS #					
	Coke oven emissions				
Cyanide compounds (XCN where X=H or any other group where a formal dissociation may occur):					
	Hydrogen cyanide	74-90-8			
	Glycol ethers (include mono- and di- eters of glycol, diethylene glycol, and triethylene glyco (OCH2CH2)n-OR' where n = 1, 2, or 3 R = al groups R' = R, H, or groups which, when ren glycol ethers with the structure: R-(OCH2CH) Polymers are excluded from the glycol categor	ol R- kyl or aryl noved, yield n-OH.			
	Lead Manganese Mercury	7439-92-1 7439-96-5 7439-97-6			
	Fine mineral fibers (includes glass microfibers fibers, rock wool fibers and slag wool fibers, echaracterized as "respirable" (fiber diameter micrometers) and possessing an aspect ratio divided by fiber diameter) > 3)	each < 3.5			
	Nickel compounds	7440-02-0			
	Polycylic Organic Matters (POM) (includes or compounds with more than one benzene ring have a boiling point greater than or equal to 1	g, and which			
	Radionuclides (a type of atom which spontar undergoes radioactive decay)	neously			
	Selenium	7782-49-2			

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